

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Page 1 of 14

Application Number	10/666098
Filing Date	September 18, 2003
First Named Inventor	Rosenflanz, Anatoly Z.
Art Unit	1755
Examiner Name	Elizabeth Bolden
Attorney Case Number	58961US002

## U.S. Patent Documents



Exam. Init."	Cite No.	Document Number	Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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	A2	US- 906,339	12/08/1908	Tone	
	A3	US- 960,712	06/07/1910	Saunders	
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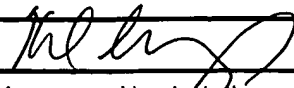
\*Examiner:

Date Considered:

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Substitute for form 1449A/PTO (modified)  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)  Page 2 of 14	Application Number	10/666098
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	A29	US- 3,174,871	03/23/1965	Geffcken et al.	
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	A31	US- 3,216,794	11/09/1965	Roschuk	
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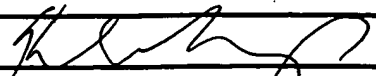
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	A58	US- 4,261,706	04/14/1981	Blanding et al.	
	A59	US- 4,311,489	01/19/1982	Kressner	
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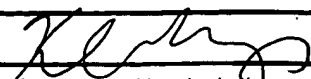
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<b>*Examiner:</b> 	<b>Date Considered:</b> 2/27/04
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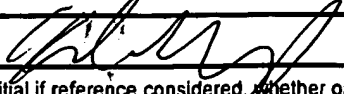
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	B22	JP	200045129A	02/15/2000			X Machine
	B23	JP	06 040765A	2/15/1994			X Machine
3	B24	JP	59 22 7726A	12/21/1984			X Machine

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	Filing Date	September 18, 2003
	First Named Inventor	Rosenflanz, Anatoly Z.
	Art Unit	1755
	Examiner Name	Elizabeth Bolden
	Attorney Case Number	58961US002

Foreign Patent Documents							
Exam. Init.*	Cite No.	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation (Check if yes)
		Ctry. Code	Number-KindCode (if known)				
<i>h</i>	B25	JP	2001294480	10/23/2001			X Machine
	B26	Hei	11-189926	07/13/1999			X Machine
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<i>h</i>	C1	Aguilar, E.A., "Processing and crystallization of rapidly solidified Al <sub>2</sub> O <sub>3</sub> -Y <sub>2</sub> O <sub>3</sub> fibres", British Ceramic Transactions, 2000, Vol. 99, No. 6, pp. 256-259.
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	C5	"China: Oversupply Puts Rare Earths Projects On Hold", Industrial Minerals, August, 1997, 1 page.
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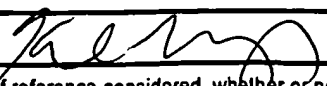
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	<b>Attorney Case Number</b>	58961US002

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3	C38	"Phase Identification of $Al_2O_3/RE_3Al_5O_{12}$ and $Al_2O_3/REA10_3$ (RE = Sm-Lu, Y) Eutectics", J. Crystal Growth, 218, 2000, pp. 67-73.
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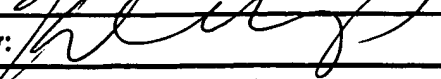
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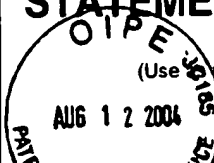
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B	C69	U.S. Patent Application entitled "Fused $\text{Al}_2\text{O}_3$ - $\text{Y}_2\text{O}_3$ - $\text{ZrO}_2$ Eutectic Abrasive Particles, Abrasive Articles, And Methods Of Making And Using The Same", filed July 19, 2000, Rosenflanz having U.S. Serial No. 09/618,876 (Attorney Docket No. 55763US002).
	C70	U.S. Patent Application entitled, "Method of Making Ceramic Articles", filed August 2, 2002, Rosenflanz having U.S. Serial No. 10/211,461 (Attorney Docket No. 56938US004).
	C71	U.S. Patent Application entitled "Methods of Making Ceramic Particles," filed February 5, 2003, Rosenflanz, having a U.S. Serial No. 10/358772 (Attorney Docket No. 58257US002)
	C72	U.S. Patent Application entitled "Methods of Making Ceramics", filed February 5, 2003, Anderson et al., having a U.S. Serial No. 10/358765 (Attorney Docket No. 58258US002)
	C73	U.S. Patent Application entitled "Ceramics and Methods of Making the Same", filed February 5, 2003, Celikkaya et al., having a U.S. Serial No. 10/358910 (Attorney Docket No. 58325US002)
	C74	U.S. Patent Application entitled " $\text{Al}_2\text{O}_3$ - $\text{La}_2\text{O}_3$ - $\text{Y}_2\text{O}_3$ - $\text{MgO}$ Ceramics, and Methods of Making the Same", filed February 5, 2003, Celikkaya et al., having a U.S. Serial No. 10/358855 (Attorney Docket No. 58352US002)
	C75	U.S. Application entitled "Use of Ceramics In Dental And Orthodontic Applications", filed February 5, 2003, having U.S. Serial No. 10/358,856 (Attorney Docket No. 58350US002)
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	C77	U.S. Application entitled "Use of Glasses Containing Rare Earth Oxide, Alumina, and Zirconia And Dopant In Optical Waveguides", filed April 28, 2003, having U.S. Serial No. 10/425,039 (Attorney Docket No. 58435US002)
	C78	U.S. Application entitled " Methods of Making Ceramic Particles", filed September 5, 2003, having U.S. Serial No. 10/655729 (Attorney Docket No. 58790US002)
	C79	U.S. Application entitled "Methods of Making Ceramics Comprising $\text{Al}_2\text{O}_3$ , REO, $\text{ZrO}_2$ and/or $\text{HfO}_2$ and $\text{Nb}_2\text{O}_5$ and/or $\text{Ta}_2\text{O}_5$ ", filed September 18, 2003, having U.S. Serial No. 10/666615 (Attorney Docket No. 58354US002)
	C80	U.S. Application entitled "Ceramics Comprising $\text{Al}_2\text{O}_3$ , REO, $\text{ZrO}_2$ and/or $\text{HfO}_2$ , and $\text{Nb}_2\text{O}_5$ and/or $\text{Ta}_2\text{O}_5$ , and Methods of Making The Same", filed September 18, 2003, having U.S. Serial No. 10/666212 (Attorney Docket No. 58807US002)
B	C81	U.S. Application entitled "Agglomerate Abrasive Grain and a Method of Making the Same", filed February 11, 2004, having U.S. Serial No. 10/776156 (Attorney Docket No. 55304US016)

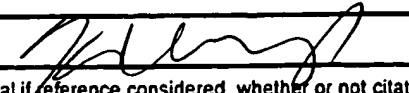
*Examiner: 	Date Considered: 2/27/06
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute for form 1449A/PTO (modified)  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use many sheets as necessary)  	Application Number	10/666098
	Filing Date	September 18, 2003
	First Named Inventor	Rosenflanz, Anatoly
	Art Unit	1755
	Examiner Name	Elizabeth Bolden
	Attorney Case Number	58961US002

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U.S. Patent Documents					
Exam. Init.*	Cite No.	Document Number	Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Doc. Number-(Kind Code if Known)			
14	A1	US- 3,625,717	12/07/1971	Grubba et al.	
	A2	US- 4,316,964	02/23/1982	Lange	
	A3	US- 4,757,036	07/12/1988	Kaar et al.	
	A4	US- 5,248,318 A	09/28/1993	Tamamaki et al.	
	A5	US- 5,413,974 A	05/09/1995	Yokoyama et al.	
	A6	US- 5,449,389	09/12/1995	Yoshizumi et al.	
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	A8	US- 5,547,479 A	08/20/1996	Conwell et al.	
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	A10	US- 5,611,829 A	03/18/1997	Monroe et al.	
	A11	US- 5,721,188	02/24/1998	Sung et al.	
	A12	US- 5,856,254	01/05/1999	Feige et al.	
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	A14	US- 6,277,161 B1	08/21/2001	Castro et al.	
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	A16	US- 6,749,653 B2	06/15/2004	Castro et al.	

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		Ctry. Code	Number-KindCode (if known)			
14	B1	DE	141 420	04/30/1980		X
	B2	EP	0 227 374	07/01/1987		
	B3	EP	0 236 507	09/16/1987		
	B4	EP	0 666 238 B1	08/09/1995		
	B5	EP	0 666 239 B1	08/09/1995		
	B6	FR	2 118 026	07/28/1972		X
	B7	GB	793,503	04/16/1958		
	B8	GB	1,005,338	09/22/1965		
14	B9	GB	2 116 992	10/05/1983		

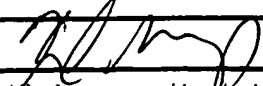
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<b>Substitute for form 1449A/PTO (modified)</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)  Page 2 of 2	<b>Application Number</b>	10/666098
	<b>Filing Date</b>	September 18, 2003
	<b>First Named Inventor</b>	Rosenflanz, Anatoly
	<b>Art Unit</b>	1755
	<b>Examiner Name</b>	Elizabeth Bolden
	<b>Attorney Case Number</b>	58961US002

Foreign Patent Documents							
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		Ctry. Code	Number-KindCode (if known)				
12	B10	GB	2 377 438 A	01/15/2003			
	B11	JP	61099665	05/17/1986			Abstract
	B12	JP	05-085821	04/06/1993			X
	B13	JP	06-171974	06/21/1994			X
	B14	JP	62-003041	01/09/1987			X
13	B15	JP	2003-94414	04/03/2003			X

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Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation (Check if yes)
14	C1	Aasland and McMillan, Nature 369, 633 (1994)	
	C2	Aguilar et al, "Melt Extraction Processing of Structural Y <sub>2</sub> O <sub>3</sub> -Al <sub>2</sub> O <sub>3</sub> Fibers", J. Eur. Ceram. Soc. 20 1091-1098 (2000)	
	C3	Gandhi, A.S. and Jarayam, V., "Pressure Consolidation of Amorphous ZrO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> by Plastic Deformation of Powder Particles", Acta Materialia, 50 (2002), 2137-2149	
	C4	Gonzalez, Eduardo J., et al., "High Pressure Compaction and Sintering of Nano-Size γ-Al <sub>2</sub> O <sub>3</sub> Powder", Materials and Manufacturing Processes Vol. 11, No. 6, 951-967, 1996	
	C5	Jantzen, C.M., Krepski, R.P., & Herman, H., "Ultra-Rapid Quenching of Laser-Method Binary and Unary Oxides", Mat. Res. Bull. 15, 1313-1326 (1980)	
	C6	Khor K.A., "Novel ZrO <sub>2</sub> -Mullite Composites Produced By Plasma Spraying", Proceedings of the 15 <sup>th</sup> International Thermal Pray Conference, 25-29 May 1998, Nice, France	
	C7	Ray, C.S. and Day, D.E., "Determining the Nucleation Rate Curve for Lithium Disilicate Glass by Differential Thermal Analysis", J. Am. Ceram. Soc. 73(2) 439-442 (1990)	
	C8	Schmucker, M, et al., "Constitution of Mullite Glasses Produced by Ultra-Rapid Quenching of Plasma-Sprayed Melts", Journal of the European Ceramic Society 15 (1995) 1201-1205	
	C9	Sarjeant, P.T. & Roy, R., in <i>Reactivity of Solids</i> (ed. J. W. Mitchell, R.C., DeVries, R.W., Roberts and P. Cannon) 725-33 (John Wiley & Sons, Inc., New York 1969)	
	C10	Takamori, T., & Roy, R., "Rapid Crystallization of SiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> Glasses", Journal of American Society, Vol. 56, No. 12, December 1973.	
	C11	Weber et al., "Synthesis and Optical Properties of Rare-Earth-Aluminum Oxide Glasses", J. Am. Ceram. Soc. 85(5) 1309-1311 (2002)	
15	C12	Wilding, M.C., McMillan, P.F., "Polyamorphic Transitions in Ytria-Alumina Liquids", J. Non-Cryst. Solids. 293-295, 357-365 (2001)	

<b>*Examiner:</b> 	<b>Date Considered:</b> 2/27/06
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Substitute for form 1449A/PTO (modified)

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Application Number	10/658098
Filing Date	September 18, 2003
First Named Inventor	Rosenflanz, Anatoly Z.
Art Unit	1755
Examiner Name	Elizabeth Bolden
Attorney Case Number	58961US002

**U.S. Patent Documents**


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		Doc. Number (Kind Code if known)			
1	A1	US- 3,714,059	01/30/1973	Shaw et al.	
	A2	US- 3,717,583	02/20/1973	Shaw et al.	
	A3	US- 3,928,603	12/16/1975	Plesslinger et al.	
	A4	US- 4,218,253	08/19/1980	Dworak et al.	
	A5	US- 4,467,767	08/28/1984	Kampichler et al.	
	A6	US- 4,829,031	05/09/1989	Roy et al.	
	A7	US- 4,950,284	08/21/1990	Hakamatsuka	
	A8	US- 5,184,348	11/17/1992	Wood	
	A9	US- 5,213,591	05/25/1993	Celikkaya et al.	
	A10	US- 5,484,752	01/16/1996	Waku et al.	
	A11	US- 5,569,547	10/29/1996	Waku et al.	
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12	A13	US- 6,447,937	09/10/2002	Murakawa et al.	

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Exam. Init.*	Cite No.	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation (Check if yes)
		Ctry. Code	Number-Kind Code (if known)				
13	B1	JP	50025808	03/18/1975			X
13	B2	FR	2538370	06/26/1984			X

**OTHER DOCUMENTS**

Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation (Check if yes)
	C1		

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Substitute for form 1449A/PTO (modified)

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Page 1 of 1

Application Number	10/666098
Filing Date	September 18, 2003
First Named Inventor	Rosenflanz, Anatoly
Art Unit	1755
Examiner Name	Elizabeth Bolden
Attorney Case Number	58961US002

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Exam. Init. *	Cite No	Document Number	Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Doc. Number (Kind Code if Known)			
<i>h</i>	A1	US- 4,182,437	01/08/1980	Roberts et al.	
<i>u</i>	A2	US- 4,552,199	11/12/1985	Onoyama et al.	
<i>a</i>	A3	US- 4,705,656	11/10/1987	Onoyama et al.	
<i>a</i>	A4	US- 5,215,563	06/01/1993	LaCourse et al.	
	A5	US-			
	A6	US-			
	A7	US-			
	A8	US-			
	A9	US-			
	A10	US-			
	A11	US-			

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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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Application Number	10/668 NO. 0016 P. 4
Filing Date	September 18, 2003
First Named Inventor	Rosenfianz, Anatoly Z.
Art Unit	1755
Examiner Name	Elizabeth Bolden
Attorney Case Number	58881US002

## **U.S. Patent Documents**

Exam. Init.*	Cite No.	Document Number	Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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	A1	US-			
	A2	US-			
	A3	US-			
	A4	US-			
	A5	US-			
	A6	US-			
	A7	US-			
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	A9	US-			
	A10	US-			
	A11	US-			

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		Crty. Code	Number-KindCode (if known)				
	B1	EP	0 247 838	07/20/1988			
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## **OTHER DOCUMENTS**


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Substitute for form 1449A/PTO (modified)  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)  	Application Number	10/666098
	Filing Date	September 18, 2003
	First Named Inventor	Rosenflanz, Anatoly
	Art Unit	1755
	Examiner Name	Elizabeth Bolden
	Attorney Case Number	58961US002

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## PROPRIETARY INFORMATION DO NOT SCAN

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS		
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<i>W</i>	C1	U.S. Application entitled "Ceramics, and Methods of Making and Using the Same", filed July 29, 2004 (Attorney Docket No. 59682US002)
<i>ay</i>	C2	U.S. Application entitled "Method of Making Ceramic Articles", filed July 29, 2004 (Attorney Docket No. 59435US002)
	C3	

*Examiner: <i>Elizabeth Bolden</i>	Date Considered: <i>2/27/06</i>
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Information Disclosure Statement)

Substitute for form 1449A/PTO (modified)

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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**Application Number****10/666098****Filing Date****September 18, 2003****First Named Inventor****Rosenflanz, Anatoly Z.****Art Unit****1755****Examiner Name****Elizabeth Bolden****Attorney Case Number****58961US002****U.S. Patent Documents**

Exam. Init.*	Cite No.	Document Number	Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Doc. Number-(Kind Code if Known)			
<i>h</i>	A1	US- 4,111,707	09/05/1978	Komorita et al.	
<i>h</i>	A2	US- 4,789,501	12/06/1988	Day et al.	
<i>h</i>	A3	US- 5,747,397	05/05/1998	McPherson et al.	
<i>h</i>	A4	US- 6,251,813 B1	06/26/2001	Sato	
	A5	US-			
	A6	US-			
	A7	US-			
	A8	US-			

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<i>h</i>	B1	JP	60221338	11/06/1985			Abstract
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Information Disclosure Statement)

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Application Number

10/658098

Filing Date

September 18, 2003

First Named Inventor

Rosenflanz, Anatoly Z.

Art Unit

1755

Examiner Name

Elizabeth Bolden

Attorney Case Number

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<i>BE</i>	A1	US- 5,764,978	08/28/1973	Elmer et al.	
	A2	US-			
	A3	US-			
	A4	US-			
	A5	US-			
	A6	US-			
	A7	US-			
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Substitute for form 1449A/PTO (modified)

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Application Number

10/666098

Filing Date

September 18, 2003

First Named Inventor

Rosenfianz, Anatoly

Art Unit

1755

Examiner Name

Elizabeth Bolden

Attorney Case Number

58981US002

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<i>u</i>	A1	US- 5,534,843	07/09/1996	Tsunoda et al.	
<i>u</i>	A2	US- 5,976,274	11/02/1999	Inoue et al.	
<i>u</i>	A3	US- 6,362,119 B1	03/26/2002	Chiba	
	A4	US-			
	A5	US-			
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	A8	US-			
	A9	US-			
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Substitute for form 1449A/PTO (modified)  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)  Page 1 of 1	Application Number	10/866098
	Filing Date	September 18, 2003
	First Named Inventor	Rosenflanz, Anatoly Z.
	Art Unit	1755
	Examiner Name	Elizabeth Bolden
	Attorney Case Number	58961US002

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	A1	US- 3,837,361	01-25-1972	Kita et al.	
	A2	US- 3,928,515	12-23-1975	Richmond et al.	
	A3	US- 4,217,264	08-12-1980	Mabie, et al.	
	A4	US- 4,772,511	09-20-1988	Wood et al.	
	A5	US- 5,057,018	10-15-1991	Bowen	
	A6	US- 5,552,213	09-03-1996	Eschner	
	A7	US- 5,733,178	03-31-1998	Obishi	
	A8	US- 2001/0030811 A1	10-18-2001	Kasai et al.	
	A9	US- 6,306,926 B1	10-23-2001	Bretscher et al.	
	A10	US- 2003/0040423 A1	02-27-2003	Harada et al.	
	A11	US- 2004/0148868 A1	08-05-2004	Anderson et al.	

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	B2					
	B3					
	B4					
	B5					

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	Filing Date	September 18, 2003
	First Named Inventor	Rosenflanz, Anatoly Z.
	Art Unit	1755
	Examiner Name	Karl E. Group
	Attorney Case Number	58961US002

U.S. Patent Documents					
Exam. Init.*	Cite No.	Document Number	Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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	C1		
	C2		

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Information Disclosure Statement)

Substitute for form 1449A/PTO (modified)

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Page 1 of 1

Application Number	10/668098
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First Named Inventor	Rosenflanz, Anatoly Z.
Art Unit	1755
Examiner Name	Karl E. Group
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